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said module configured to removably engage a wiring panel mounted within an electrical box so as to bring said contacts in communications with an electrical power source connected to said panel.

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~~CONX~~ 28. The electrical module according to claim 37 further comprising a key ² *(876)* adapted to said wiring panel so that said module can only engage said wiring panel in a predetermined orientation.

103 3. The electrical module according to claim 38 wherein said key is a ground bar extending generally perpendicularly from said back cover and providing a ground for said electrical function, said ground bar configured to insert into a corresponding ground slot of said wiring panel only in said predetermined orientation.

base 126 5. ³⁰ The electrical module according to claim 39 further comprising a conductive element ⁽⁸²²⁾ disposed at least partially around the outside of said front cover.

try face plate ³⁰ *Sub 37* An electrical wiring panel adapted to install within an electrical box and to accept a removable functional module, said panel comprising:
a front side;
a back side;
a plurality of panel contacts accessible from said front side; and
a plurality of panel fixtures disposed at least partially around and shielding said panel contacts,

Millet said panel fixtures configured to removably engage said module so as to electrically connect said module to said panel contacts.

32. The electrical wiring panel according to claim 41 further comprising:
a plurality of terminal contacts proximate said back side,
said terminal contacts adapted to connect with an electrical power source; and
a plurality of busses in communications between said terminal contacts and said panel contacts,
wherein said panel is configured to partition an electrical box into a user accessible portion proximate said front side and a user inaccessible portion proximate said back side so as to shield a user from said power source.

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also

43. The electrical wiring panel according to claim 41 further comprising a plurality of breakaways, one each located on a corresponding one of said busses, said breakaways being removable so as to isolate a first portion of said panel contacts from a second portion of said panel contacts.

cont.

44. The electrical wiring panel according to claim 41 further comprising a bracket attached to said front side, said bracket adapted to mount said panel within said box.

45. An electrical wiring assembly comprising:
a wiring panel having a front side and a back side,
said front side having a panel fixture shielding a panel contact,
said wiring panel installable within an electrical box; and
an electrical module comprising a front cover and a back cover,
said front cover providing a user accessible electrical function,
said back cover having a module fixture shielding a module contact,
said module fixture configured to engage said panel fixture so as to electrically connect said module contact with said panel contact.

*Element 1(27)
is part of
el. box
& can be*

46. The electrical wiring assembly according to claim 45 further comprising:
an electrical box having an open front face and a back face,
said wiring panel adapted to install within said electrical box so as to partition the interior of said box into a user accessible module compartment proximate said front face and a user inaccessible wiring compartment proximate said back face, said panel fixture proximate said module compartment and distal said wiring compartment,

said wiring panel further having a cable connector proximate said wiring compartment and distal said module compartment,

said panel contact in communication with said cable connector via a buss portion of said wiring panel,

said cable connector configured to terminate a power cable routed into said wiring compartment,

said module installable within said module compartment by engaging said panel so that said module contact is in communication with said cable connector via said panel contact.

(47) The electrical wiring assembly according to claim 46 wherein:
said module has ground bar,
said panel has a corresponding ground slot, and
said ground bar and said slot being located so as to insure a particular orientation
of said module with respect to said panel.

(48) An electrical wiring assembly comprising:
a wiring panel having a front side and a back side, said front side having a panel fixture extending generally perpendicularly from said front side and a panel contact accessible from within said fixture; and
an electrical module comprising a front cover and a back cover, said front cover providing a user accessible electrical function, said back cover having a module fixture extending generally perpendicularly from said back cover and a module contact extending from said back cover within said module fixture,
said module fixture configured to removably engage said panel fixture so as to connect said module contact with said panel contact.

(49) The electrical wiring assembly according to claim 48 further comprising:
a module ground contact extending from said back cover; and
a panel ground contact accessible from said front side;
said module ground contact adapted to engage said panel ground contact only when said module is in a predetermined orientation with respect to said panel.

Respectfully submitted,

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